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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
|-----------------|-------------|----------------------|---------------------|------------------|

09/936,286

09/12/2001

Francois Cunchon

T2147-907461

3967

181 7590 10/09/2009
MILES & STOCKBRIDGE PC
1751 PINNACLE DRIVE
SUITE 500
MCLEAN, VA 22102-3833

EXAMINER

BATES, KEVIN T

ART UNIT

PAPER NUMBER

2456

NOTIFICATION DATE

DELIVERY MODE

10/09/2009

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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| | | | |
|------------------------------|--------------------------------------|---------------------------------------|--|
| Office Action Summary | Application No. 09/936,286 | Applicant(s) CUNCHON ET AL. | |
| | Examiner KEVIN BATES | Art Unit 2456 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 August 2009.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 7,8,10-12,14 and 18-22 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 7,8,10-12,14 and 18-22 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Response to Amendment

This Office Action is in response to a communication received on August 20, 2009.

Claims 7 and 14 are currently amended.

Claims 7, 8, 10-12, 14, and 18-22 are currently pending in this application.

Response to Arguments

Applicant's claim amendments have overcome the 35 USC §112 1st rejection. The rejection has been withdrawn.

Applicant's arguments regarding the prior art rejection have been fully considered but they are not persuasive. The applicant argues that the combination of Ilnicki in view of Rees fails to disclose a gateway machine which establishes a first connection and a second connection at a second security level between the gateway machine and a third port of the application server (See applicant's remarks pg 7, filed Aug. 5, 2009). More particularly, that the prior art does not teach a first connection at a first security level with the first port of the server application (See *Id.* at pg 8). The applicant seems to be implying that the invention includes both (1) a first connection from the client to the server application which connects to the first port of the server machine and (2) a second connection from the gateway to the third port of the server machine (See *Id.* at pg 8-9).

This implication by the applicant is a mischaracterization of the claimed invention. If the claimed invention actually stated that assertion expressly, then the examiner

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would be forced to reinstate the 35 USC §112 1st ¶ previously address in the most recent office action. (See Final Rejection, pg 2-4, mailed May 20, 2009). This rejection states that the specification does not support the idea that the request or connection by the client sent to the first port of the server application is ever established or actually received by the server machine running the server application. (See *Id.*, see also specification pg 5, line 19 to pg 5, line 29.)

The claimed invention (of claim 7) actually recites, *inter alia*, (1) a request by the client to establish a first connection, (2) that request being received by the gateway, (3) the gateway establishing a thread which establishes said first connection, and (4) the gateway establishing a second connection between the gateway and the server machine. The real issue is whether the first connection discussed in step (3) is a connection to the server machine as stated by the applicant. The instant specification on page 6, lines 15 – 17 recites “The fourth step 46 generates a processing thread for the connection request detected in step 45 in order to process the connection with a first security level, substituting it for the server application 17 of the/machine 13.” So in summary, the gateway takes the place (substitutes) of the server machine, thus the connection described here is between the client and the gateway, while the client believes that the connection is between the client and the first server machine port. The examiner finds no other description in the instant specification that describes the first and second connections (with two different security levels) as both being connections to the server machine.

Ilnicki teaches the client sending a request to a target server, the request being intercepted by a gateway, and that gateway establishing a first connection between the gateway and client and a second connection between the gateway and the server. (See Fig. 5, see *also* Col. 5, lines 21-25; Col. 8, lines 46 – 57). Ilnicki in combination with Rees does not teach a first and second connection to the target server as stated by the application, but as previously discussed that is not a requirement of the claimed invention.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 7-8, 10-12, 14 and 18-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ilnicki (6751677) in view of Rees (6981265).

Regarding claims 7 and 14, Ilnicki teaches a method for allowing a client application to establish, in a client network, a first connection at a first security level with a first port of a application hosted in a server machine linked to a server network in order to send messages addressed to the server machine, said messages passing from the client network to the server network through a network layer of a gateway machine (Figure 3), the method comprising:

creating a second port in the gateway machine (Col. 5, lines 4 – 13);

rerouting to the second port of the gateway machine, by ordering the network layer (CR) of the gateway machine, any message sent from the client network and addressed to the first port of the server machine (Col. 5, lines 21 -25);

receiving at the second port of the gateway machine a request addressed to the first port of the server application to establish said first connection with the first port of the server application (Col. 5, lines 21 -25);

listening to the second port of the gateway machine to detect the request addressed to the first port of the server application to establish said first connection with the first port of the server application (Col. 5, lines 21 -25); and

generating, in the gateway machine, a thread which establishes said first connection and a second connection at a second security level between the gateway machine and the server application (Col. 8, lines 46 – 57);

wherein said generating is performed in response to the detection of the request addressed to the first port of the server application to establish said first connection, and said server application is configured to receive at least one message at the second security level from the gateway machine via said second connection (Col. 8, lines 46 – 57).

Ilnicki does not explicitly indicate that the gateway server establishes a connection with a third port of the server application, rather than a first port.

Rees teaches a system for relaying messages from an external network into an internal network through a gateway (Fig. 11) that includes a teaching that messages

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forwarded to port 1 of a port inside the network can be forwarded to a different port inside the network by the gateway (Col. 22, line 50 – Col. 23, line 20).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use Rees teaching of allowing the gateway redirect a communication from a first port to a second to allow communications external to the target server's network access ports which only internal user's can access.

Regarding claim 8, Inicki teaches a method according to claim 7, wherein said thread comprises:

establishes, in a first phase, said first connection at the first security level in a first interface associated with the second port and with said request;

establishes in a second phase said second connection at the second level of security in a second interface to the third port in the server machine;

writes in a third phase at the second security level in the second interface any message read in the first interface at the first security level, and

writes in a fourth phase at the first security level in the first interface any message read in the second interlace at the second security level (Col. 8, lines 46 - 57, wherein the first connection is between the client terminal and the gateway and the second connection is between the gateway and the target server, both connections are separate SSL connections, thus are the same security level, where claims 18 and 19 provide evidence that the broader claims allow the first and second security levels to be identical).

Regarding claims 10 and 11, Ilnicki teaches a method according to claims 7 and 8, wherein said creating and rerouting are executed automatically by a first process of the gateway machine and said first process generates a second process that executes said listening and generating (Col. 5, lines 21 -25, wherein using different processes for different operations of the gateway is an obvious variation of any program run on a computer).

Regarding claim 12, Ilnicki teaches a method according to claim 7, further comprising automatically executing the steps of creating, rerouting and deleting by a first process of the gateway machine and generating by said first process a second process that executes the steps of listening and generating a thread (Col. 5, lines 21 - 25, wherein using different processes for different operations of the gateway is an obvious variation of any program run on a computer).

Regarding claims 18-19, Ilnicki teaches a method according to claims 7 and 14.

Ilnicki does not explicitly indicate that said first security level is different than said second security level.

Rees teaches a system for providing a trusted gateway between a client and a target server where the communications being received from the gateway are given a higher level of security than any other communications being made across the network (Col. 3, lines 18 – 29).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to allow the gateway in Ilnicki be considered a trusted gateway thus

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allowing the target server to allow the communications from the gateway a higher security level than other connections on the network.

Regarding claims 20-22, Ilnicki teaches a method according to claims 7 and 14, further comprising deleting, by ordering the network layer (CR) of the gateway machine, any message sent from the client network to a third port located in the server machine regardless of a security level of said message sent to the third port (Col. 5, lines 60 – 65, where if the port is unauthorized to be sent through the gateway, then the messages will not be allowed to pass through the gateway).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KEVIN BATES whose telephone number is (571)272-3980. The examiner can normally be reached on M-F 8 am - 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bunjob Jaroenchonwanit can be reached on (571) 272-3913. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/KEVIN BATES/

Primary Examiner, Art Unit 2456